



Certificate Programs at the HHSDC Training Center

Information Architect Certificate

The Program

The HHSDC Training Center is offering the updated **Information Architect Certificate**. The program consists of a core program of six classes, plus electives. Students may earn the following certificate levels by completing the program requirements:

Information Architect – All six core classes

Information Architect Expert – All core classes plus any 2 electives

Information Architect Master – All core classes plus all 4 electives

Core Classes:

- *Modeling Essential Business Processes*
- *Discovering Essential Business Requirements*
- *Modeling Essential Business Data*
- *Designing Optimum Business Systems*
- *Building an Effective Testing Environment*
- *Tailoring the SDLC Process to Your Organization*

Electives:

- *Streamlining the SDLC Process*
- *Modeling in an Object-Oriented Environment*
- *Designing Distributed Databases*
- *Utilizing Distributed Architectures*

How to Obtain a Certificate

While you are on site attending the final course in your program level, notify the HHSDC Training Office that you are about to complete the program. A special certificate will be prepared and awarded to you upon completion of the final class.

If you have already earned an *Information Architect* certificate and you wish to pursue the *Expert* or *Master* level, you simply need to complete the required number of electives for each level.

Tuition Discount

When you earn a certificate, your organization will receive a 10% discount off the total tuition for all classes in that level. The total discount for a level will be taken in the final class of that level. To qualify for the discount, you must complete the first level within an 18-month period and each succeeding level within 12 months after the previous level.

How Will This Program Benefit My Organization?

Please see Page 2 for a description of the benefits attained by your organization if you complete this program.

Course titles have changed! Please refer to page 5 for the list of changes.



HEALTH & HUMAN SERVICES DATA CENTER

HHSDC Training Center
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(916) 739-7502
FAX: (916) 739-7779
TDD: (916) 454-7226



Organizational Benefits for Attending this Program

This program will benefit your organization by teaching a formal, structured development methodology that will allow you to:

- *Reduce development, testing and construction costs of a new system, or of changing an existing system*
- *Shorten the development cycle*
- *Improve the quality of your systems, both new and existing*
- *Ensure the selection of the right technology for the job by creating high-quality business requirements using structured models*
- *Improve the quality and speed of delivery of all SDLC deliverables by using Joint-Application Development (JAD) workshops and techniques*

This unique program, taught by Train-Right at the HHSDC Training Center, will teach your business and technical experts to understand the core competencies of your business, and to model and test the business requirements using a structured approach. In other words, instead of focusing on technology, which changes constantly, the participant will learn to focus on business

rules and business processes, and to select the appropriate technology to satisfy a business problem.

The methodology that provides this development framework is the QRAD approach, or Quality Rapid Application Development. Based on the Yourdon Systems Method, QRAD saves money by shortening development time and by assuring quality throughout the Systems Development Life Cycle (SDLC). Specifically, QRAD assures quality — and cost savings — by creating the framework for independent review of deliverables throughout the SDLC, and by focusing on developing repeatable SDLC processes so you can repeat your successes. This methodology will allow you to leverage your investment in existing business systems, and to create systems that are easier and less expensive to maintain.

Train-Right instructors have been teaching the Yourdon Systems Method for many years. Their extensive breadth and depth of knowledge in this methodology makes them an excellent training provider for this certificate program.

REGISTRATION INFORMATION

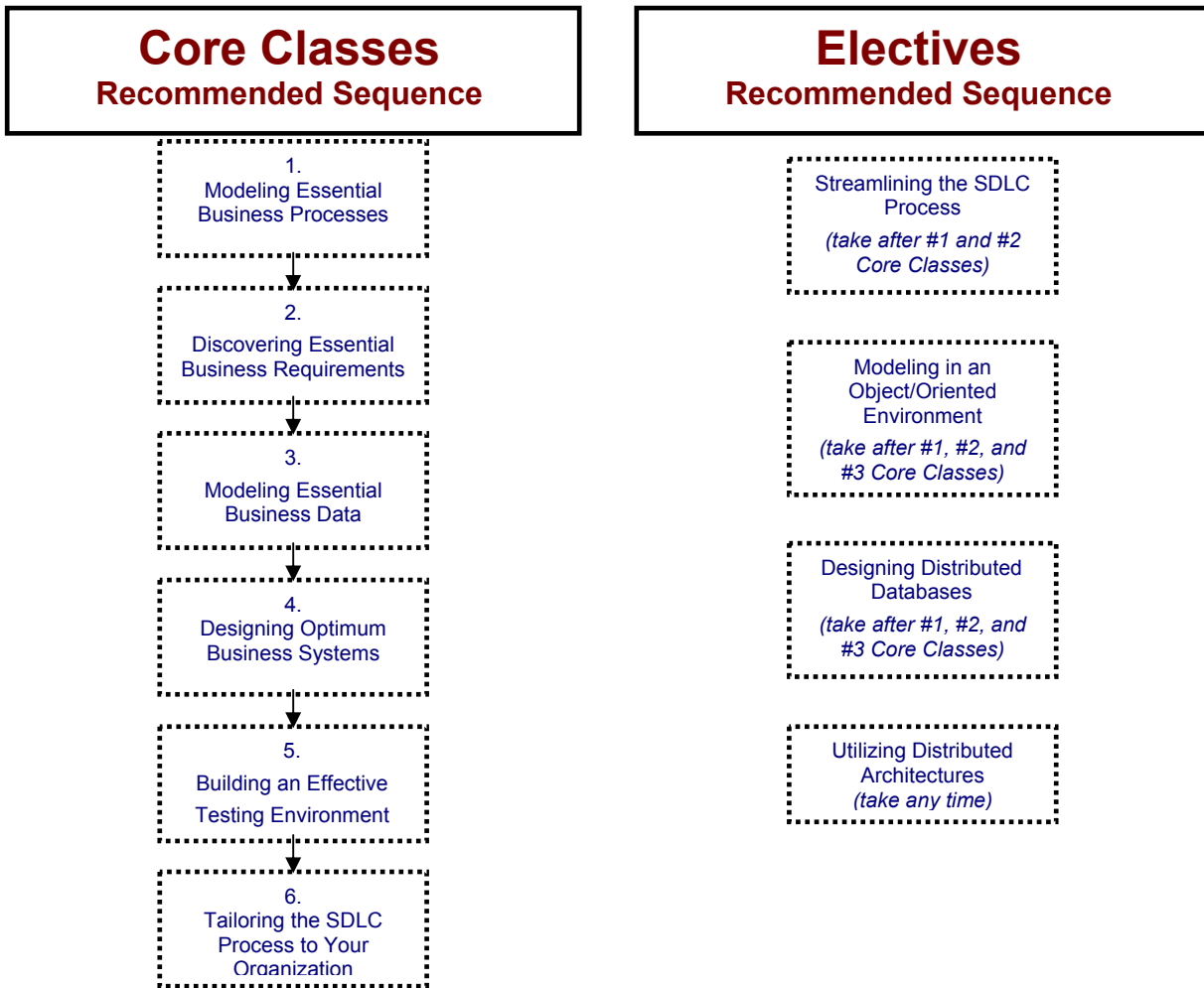
Satisfaction guaranteed or your money back

To enroll in a class at HHSDC, please have your training coordinator call the HHSDC Training Center Registration Line at 739-7502. We will take all enrollment and billing information over the phone, then send the training coordinator written confirmation and a map to HHSDC for each student.

Cancellations of enrolled students must be submitted in writing via e-mail to training@hhsdc.ca.gov by the training coordinator. To avoid charges for late cancellations, the note must be received by **TEN (10) WORKING DAYS PRIOR TO THE FIRST DAY OF CLASS**. The full course fee will be charged for any cancellations received after the 10-working day deadline. Verbal cancellation notifications will not be accepted. Substitutions may be made at any time via telephone call.

The HHSDC Training Center is located at 9323 Tech Center Drive, Suite 100, in Sacramento. Tech Center Drive is located one block south of the intersection of Folsom Blvd. and Mayhew Road, between Bradshaw and Watt. **The class will be in session each day from 8:15 A.M. to approximately 4:30 P.M.** Plenty of free parking is available.

Information Architect Curriculum and Schedule



**These courses may also be taken individually without working towards a certificate.
Some prerequisites apply.**

If you have any questions please call us at (916) 739-7502

Schedule of Classes – July 2004 through June 2005

Course Title	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Modeling Essential Business Processes		23-27			1-5		24-28		7-11		16-20	
Discovering Essential Business Requirements			13-15		30-	2			23-25		25-27	
Modeling Essential Business Data				5-8				22-25			31-	3
Designing Optimum Business Systems						13-15				27-29		
Building an Effective Testing Environment				25-28						4-7		13-16
Tailoring the SDLC Environment to Your Organization							10-12					27-29
Streamlining the SDLC Process								28-	4			
Modeling in an Object-Oriented Environment										11-15		
Designing Distributed Databases								14-16				
Utilizing Distributed Architectures					15-17						2-4	

Information Architect Certificate Program COURSE DESCRIPTIONS

Tuition shown is before discount.

Modeling Essential Business Processes –

This 5-day course presents the basics of the Yourdon Systems Method approach to structured analysis. The course covers the creation of a current system implementation model and its transformation into a system essential model (requirements specification). The models are created and documented using data flow diagrams, mini-specs and data dictionary entries. Hands-on workshops using a JAD format are used to reinforce concepts.

\$925 per student.

Discovering Essential Business

Requirements – This 3-day course presents a methodology for creating and validating business requirements that accurately and effectively reflect the essential activities of some portion of a business. This course covers the discovery, creation, documentation, and validation of functional and nonfunctional business requirements. The techniques of fact-finding and effective listening are discussed and the implementation of Joint Application Development (JAD) workshops to enhance fact-finding is presented. The concept of a Use Case is presented for validating business requirements. Hands-on workshops using a JAD format are used to reinforce concepts.

\$775 per student.

Modeling Essential Business Data – This 4-day course presents the terminology and basic concepts of data modeling and illustrates them using Entity-Relationship Diagrams (ERD), Data Structure Diagrams (DSD) and Data Model Diagrams (DMD). The entire data modeling process is presented, from conceptual modeling, to normalization, to the logical data model. The course finishes by presenting options for implementing the logical data model

as a relational database model. Hands-on workshops in a JAD format are used to reinforce concepts. **\$825 per student.**

Designing Optimum Business Systems –

This 3-day course presents the basics of the Yourdon Systems Method (YSM) approach to structured design. The course covers the creation of a new System Implementation Model (SIM) from the System Essential Model (SEM) that was created during structured analysis. The three steps of structured design are defined and the various views that make up the SIM are created and documented using physical data flow diagrams, structure charts, pseudo-code, and data dictionary entries. Hands-on workshops using a JAD format are used to reinforce concepts and are based upon the business case that was presented in ***Modeling Essential Business Processes***. **\$675 per student.**

Building an Effective Testing

Environment – This 4-day course presents an architecture that helps define a process to implement a structured testing environment for all phases of the Systems Development Life Cycle (SDLC). It focuses on the four distinct techniques of structured testing – independent creation, independent review, functional testing and structural testing – each of which must be present in any quality assurance program to ensure an absolute minimum of system problems. Using risk assessment as a guide for structured testing is emphasized and a risk matrix is presented. **\$825 per student.**

Information Architect Certificate Program COURSE DESCRIPTIONS

Tailoring the SDLC Process to Your

Organization – This 3-day course presents an integrated view of the information presented in the structured SDLC courses (see prerequisites). The Capability Maturing Model for the SDLC is discussed and a view of a mature, modern SDLC is explained. The YSM models for the analysis and design phases of the SDLC are covered and the testing of all deliverables is shown to be integral to producing a high-quality product. The various types of SDLC productivity tools are covered and their functions explained. Hands-on workshops using a JAD format are used to reinforce concepts. **\$675 per student.**

Streamlining the SDLC Process – This 5-day class presents three of today's emerging techniques and the supporting SDLC productivity tool kits that enhance the analysis process. These techniques are QRAD (Quality Rapid Application Development), JAD (Joint Application Development) and YSM (Yourdon Systems Method). Heavy emphasis is placed on workshops using a JAD format where teams of participants practice and reinforce the skills taught. **\$925 per student.**

Modeling in an Object-Oriented

Environment – This 5-day course presents the basics of the Yourdon/Coad approach to object-oriented analysis and design. The course

covers the creation of a System Essential Model (requirements specification) and a System Implementation Model (design specification) using object-oriented models and techniques. Hands-on workshops using a JAD format are used to reinforce concepts. **\$975 per student.**

Designing Distributed Databases – This 3-day course presents fundamental database concepts that are common to all database management systems. Then, these concepts are related to the types of databases that are used in modern business systems-relational, client/server, extended relational, object-oriented, and data warehouse. **\$675 per student.**

Utilizing Distributed Architectures – This 3-day course presents the various technical architectures, platforms, and tools associated with the Client/Server environment. Other subjects discussed are database server technical issues, SQL transparency and standards, basic application structure, application partitioning, cooperative processing, and types of middleware. Other issues presented include implementation issues, design issues, and administrative issues that relate to ensuring success in this complex technical environment. **\$675 per student.**

COURSE TITLE CHANGES	
OLD TITLE	NEW TITLE
Introduction to Structured Analysis	Modeling Essential Business Processes
Effective Business Requirements	Discovering Essential Business Requirements
Data Modeling Essentials	Modeling Essential Business Data
Introduction to Structured Design	Designing Optimum Business Systems
Structured Testing Fundamentals	Building an Effective Testing Environment
Maturing Your SDLC Process	Tailoring the SDLC Environment to Your Organization
Structured Analysis – Advanced Concepts	Streamlining the SDLC Process
Analysis & Design in an Object-Oriented Environment	Modeling in an Object-Oriented Environment
Database Technology for the New Millennium	Designing Distributed Databases
Client/Server – A Technical Overview	Utilizing Distributed Architectures